

# PRL Update

April 2012

# Staff Changes

PRL

AMO or soft cond mat

- Ling Miao to PRX (we will hire new ed.)
- 23 new members of PRL's editorial board, especially DMP (4/5 left; 6 new)

Other journals:

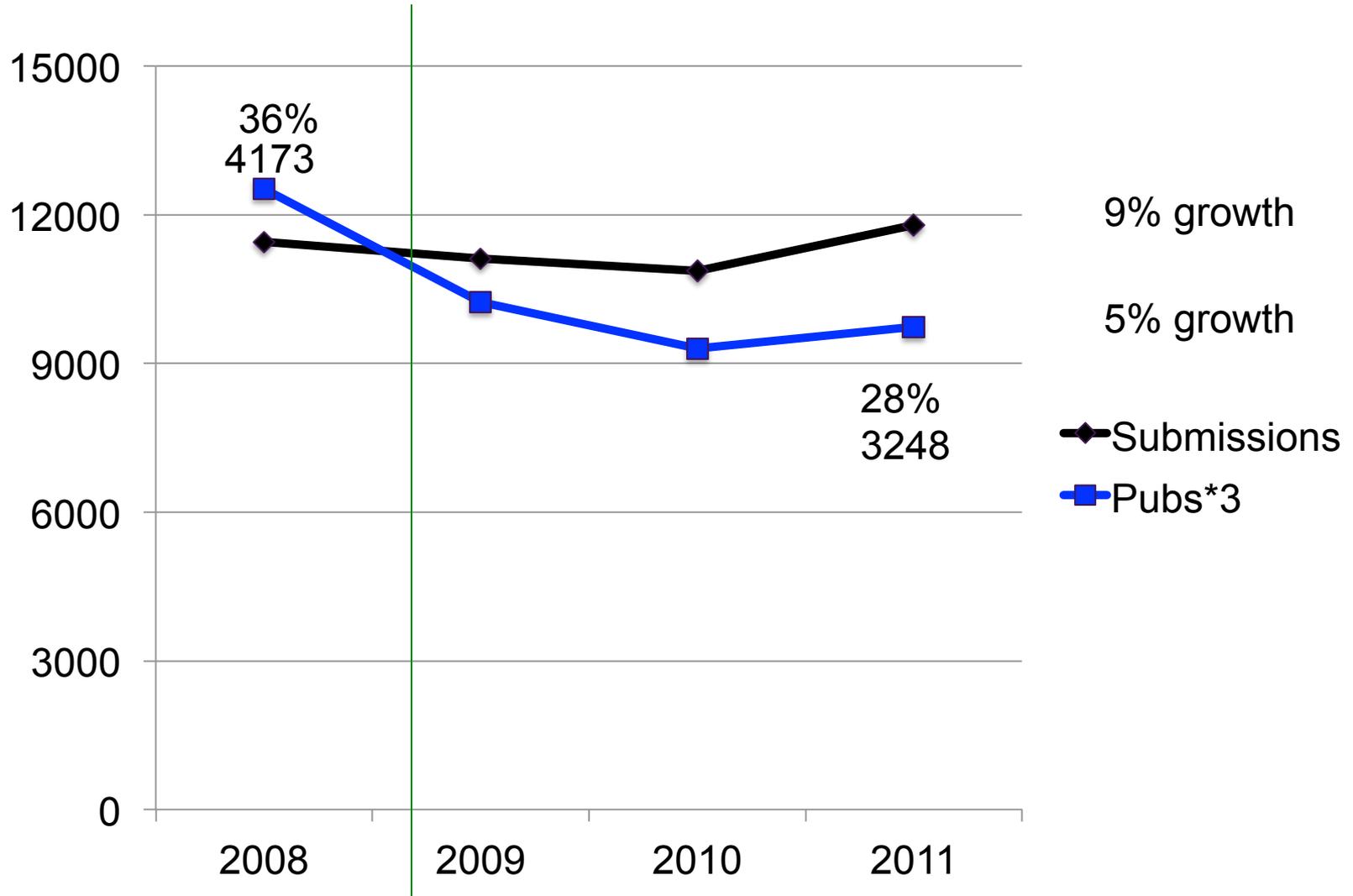
- Laurens Molenkamp succeeds Peter Adams as Editor of PRB (Laurens was a DAE 01Oct01-30Sep07)
- Gary Grest to leave PRE

# The New Length Scheme

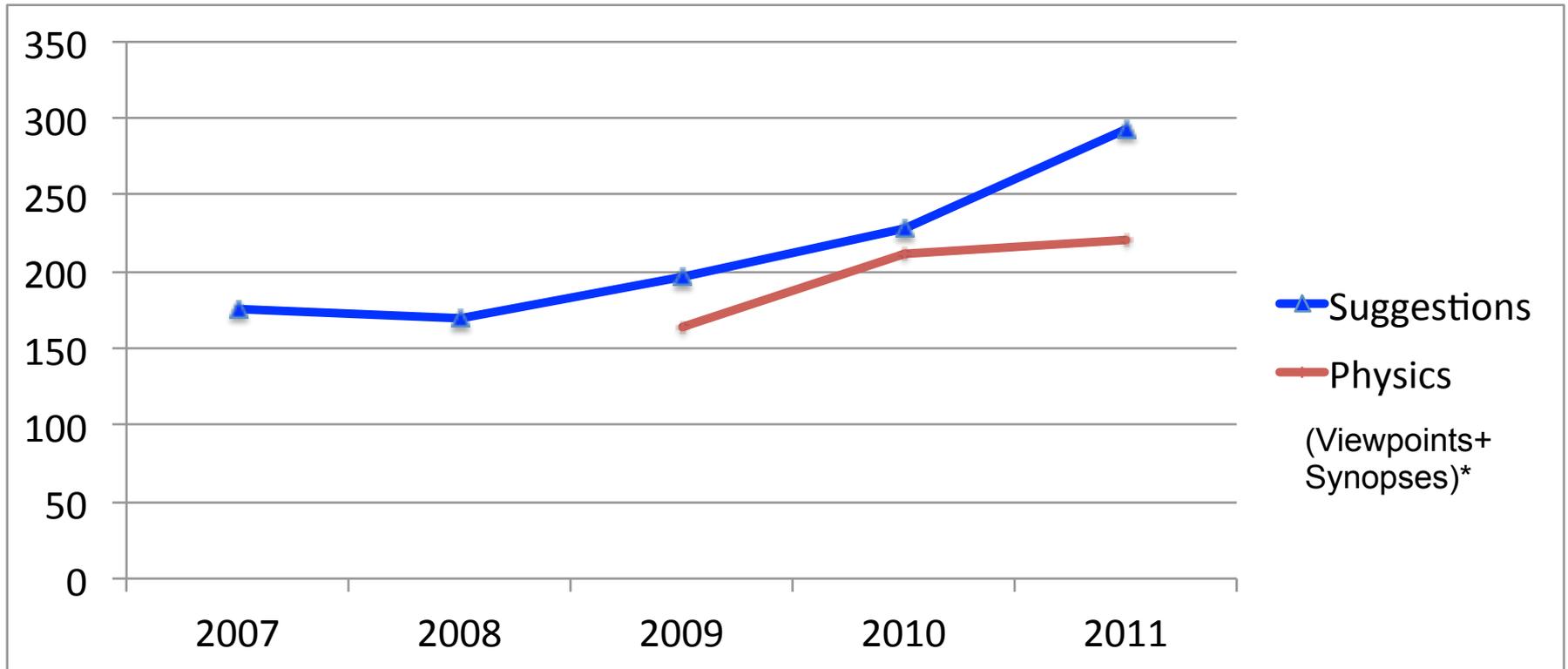
- PRL moved from counting lines to “words”
  - Length of text from viewpoint of general reader
  - So only the body counts\* (title, abstract, author list, acknowledgments & citations **exempt**)
  - Body  $\lesssim$  3500 words
  - Equations and figures assigned a word-equivalent
- Many papers fall onto a 5<sup>th</sup> page.
- Number of quantized pages per Letter has gone from  $\sim 4.5$  to  $\sim 4.9$
- Number of references from  $\sim 23$  to  $\sim 27$

\*footnotes within bibliography *do* count towards length.

# Statistics: Growth returns



# Highlighting Papers



\*Physics for all other journals combined has stayed ~80

# Other Stats

- Rejection without external review remains at around 20% (prior to reaffirming standards it was ~30%)
- Processing time for published Letters stays constant at about 20 days in office (c.f. ~40 days with authors and ~60 days with referees)

# LHC PRL receipts and Viewpoints

**2010: 12**

Dijet asymmetry & elliptic flow in Pb-Pb collisions  
(ATLAS & ALICE)

**2011: 38**

Search for supersymmetry (ATLAS & CMS)

Evidence for  $CP$  violation in  $D$  mesons (LHCb)

**2012: 58** (extrapolated)

Hints of Higgs to  $WW$ ,  $\gamma\gamma$ , &  $ZZ$  (ATLAS & CMS)

# Higgs $\sim 125$ GeV

- Published three LHC papers along with a Viewpoint by Howie Haber
- Received 13 theory papers so far
  - Appointed a czar to look at any borderline cases (to aid in coherency of decisions)
  - Accepted two so far, one more seems likely to make it

# OPERA “superluminal” papers

- 50+ submissions
- No czar, but did use informal advice
- 3 published, all constraints on models:

*Pair creation constrains superluminal neutrino propagation,*  
Cohen & Glashow

*Superluminal neutrinos at OPERA confront pion decay  
kinematics,* Cowsik, Nussinov, Sarkar

*Constraints and tests of the OPERA superluminal neutrinos,* Bi,  
Yin, Yu, Yuan

**These killed almost all models submitted to us.**



PRL was cited more than 330,000 times last year.

## Misc Slides

# Statistics: Growth returns

- Submitted Letters (only; no Comments etc.)
  - 2008: 11547
  - 2009: 11119    -3.7%    ← Reinvigorated July 2009
  - 2010: 10864    -2.3%
  - 2011: 11795    +8.6%
- Published Letters (only; no Comments etc.)
  - 2008: 4173
  - 2009: 3414    -18%    ← Reinvigorated July 2009
  - 2010: 3101    -9.2%
  - 2011: 3248    +4.7%

# Receipts by section (*subject*) 10 vs 11

	<i>general</i>	<i>gravity</i>	<i>particles</i>	<i>nuclear</i>	<i>atomic</i>	<i>nonlinear</i>	<i>plasma</i>	<i>cond. matt.</i>	<i>soft&amp;bio</i>		
	L0	L0G	L1	L2	L3	L4	L5	L6	L7	L8	Tot
2010	1465	492	499	256	667	1085	444	1487	3209	1260	10864
2011	1482	596	667	261	763	1153	536	1603	3557	1181	11795
%chng	1.2	21.1	33.7	2.0	14.4	6.3	20.7	7.8	10.8	-6.3	+8.6

# Published by subject 2010 vs 2011

(Letters only; no Comments, etc.)

	<i>general</i>	<i>gravity</i>	<i>particles</i>	<i>nuclear</i>	<i>atomic</i>	<i>nonlinear</i>	<i>plasma</i>	<i>cond. matt.</i>	<i>soft&amp;bio</i>		
	L0	L0G	L1	L2	L3	L4	L5	L6	L7	L8	Tot
2010	389	97	177	85	293	275	191	362	929	303	3101
2011	386	141	212	93	242	274	183	432	986	299	3248
%ch	-0.7	45.4	19.8	9.4	-17.4	-0.4	-4.2	19.3	6.1	-1.3	+4.7

# Acceptance rates 2010 vs 2011

(pub' d in yr)/(rcpts in yr ending four months prior)

	<i>general</i>	<i>gravity</i>	<i>particles</i>	<i>nuclear</i>	<i>atomic</i>	<i>nonlinear</i>	<i>plasma</i>	<i>cond. matt.</i>	<i>soft&amp;bio</i>		
	L0	L0G	L1	L2	L3	L4	L5	L6	L7	L8	Tot
2010	27%	20%	37%	40%	44%	27%	43%	25%	29%	26%	29%
2011	27%	25%	35%	34%	33%	23%	35%	27%	29%	24%	28%